

<b>Proposal # 2001-</b> <u>L201</u> <b>(Office Use Only)</b>
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**PSP Cover Sheet** (Attach to the front of each proposal)Proposal Title: Sacramento River Fish Screen Program Vertical River Pump DiversionsApplicant Name: USDA Natural Resources Conservation ServiceContact Name: Dan Z. MartynnMailing Address: 100 Sunrise Blvd. Suite B, Colusa, CA 95932Telephone: (530) 458-2931 ext 102Fax: (530) 458-3683Email: Dan.Martynn@ca.usda.gov**Amount of funding requested \$** 2,336,600

Some entities charge different costs dependent on the source of the funds. If it is different for state or federal funds list below.

State cost \_\_\_\_\_

Federal cost \_\_\_\_\_

**Cost share partners?**☒ **Yes** ☐ **No**

Identify partners and amount contributed by each: NRCS, \$232,000 technical & administrative- Anticipated/Expected Contributions include \$100,000 EOIP financial assistance from NRCS and \$200,000 financial from CA Fish and Game

**Indicate the Topic for which you are applying (check only one box).**

- |  |  |
|--|--|
| <input type="checkbox"/> Natural Flow Regimes                | <input type="checkbox"/> Beyond the Riparian Corridor                |
| <input type="checkbox"/> Nonnative Invasive Species          | <input type="checkbox"/> Local Watershed Stewardship                 |
| <input type="checkbox"/> Channel Dynamics/Sediment Transport | <input type="checkbox"/> Environmental Education                     |
| <input type="checkbox"/> Flood Management                    | <input type="checkbox"/> Special Stabs Species Surveys and Sbdies    |
| <input type="checkbox"/> Shallow Water Tidal/ Marsh Habitat  | <input type="checkbox"/> Fishery Monitoring, Assessment and Research |
| <input type="checkbox"/> Contaminants                        | <input checked="" type="checkbox"/> Fish Screens                     |

What county or counties is the project located in? Glenn, Colusa, and Sutter

**What CALFED ecozone is the project located in? See attached list and indicate number. Be as specific as possible** Sacramento River, Chico Landing to Verona (3.3, 3.4)

Indicate the type of applicant (check only one box):

- |  |  |
|--|--|
| <input type="checkbox"/> State agency                    | <input checked="" type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input type="checkbox"/> Non-profit                |
| <input type="checkbox"/> Local government/district       | <input type="checkbox"/> Tribes                    |
| <input type="checkbox"/> University                      | <input type="checkbox"/> Private party             |
| <input type="checkbox"/> Other: _____                    |  |

indicate the primary species which the proposal addresses (check all that apply):

- |  |   |
|--|---|
| <input type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | <input type="checkbox"/> Spring-run chinook salmon      |
| <input type="checkbox"/> Winter-run chinook salmon   | <input type="checkbox"/> Fall-run chinook salmon        |
| <input type="checkbox"/> Late-fall run chinook salmon  | <input type="checkbox"/> Longfin smelt                  |
| <input type="checkbox"/> Delta smelt   | <input checked="" type="checkbox"/> Steelhead trout     |
| <input type="checkbox"/> Splittail   | <input type="checkbox"/> Striped bass                   |
| <input type="checkbox"/> Green sturgeon  | <input checked="" type="checkbox"/> All chinook species |
| <input type="checkbox"/> White Sturgeon  | <input type="checkbox"/> All anadromous salmonids       |
| <input type="checkbox"/> Waterfowl and Shorebirds  | <input type="checkbox"/> American shad                  |
| <input type="checkbox"/> Migratory birds   |   |
| <input type="checkbox"/> Other listed TIE species: _____                                     |   |

Indicate the type of project (check only one **box**):

- |  |   |
|--|---|
| <input type="checkbox"/> Research/Monitoring           | <input type="checkbox"/> Watershed Planning |
| <input checked="" type="checkbox"/> Pilot/Demo Project | <input type="checkbox"/> Education          |
| <input type="checkbox"/> Full-scale Implementation     |   |

Is this a next-phase of an ongoing project? Yes x No      
Have you received funding from CALFED before? Yes     No x

If yes, list project title and CALFED number Small Fish Screen Program of the Bay Delta Solution  
#1425-99-AA-20-17700

Have you received funding from CVPIA before? Yes     No x

If yes, list CVPIA program providing funding, project title and CVPIA number (if applicable):  
\_\_\_\_\_

By signing below, the applicant declares the following:

- The truthfulness of all representations in their proposal;
- The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant to the extent as provided in the Section.

Dan Z. Martynn  
Printed name of applicant

  
Signature of applicant

## B. Executive Summary

### **Sacramento River Small Fish Screen Project Vertical River Pump Diversions**

Requested Amount: \$ 2,336,600

Natural Resources Conservation Service  
100 Sunrise Boulevard, Suite B  
Colusa, CA 95932-0000

Family Water Alliance  
P.O. Box 365  
Maxwell, CA 95955

(530) 458-2931 Extension #3,    FAX: (530) 458-3683    E-mail: [Dan.Martynn@ca.usda.gov](mailto:Dan.Martynn@ca.usda.gov)

#### **Participants and Collaborators:**

The Sacramento River Small Fish Screen Project is a cooperative effort between the Natural Resources Conservation Service (NRCS); Colusa, Glenn and Sutter County Resource Conservation Districts; Family Water Alliance (FWA); California Department of Fish and Game; National Marine Fisheries Service; US Fish and Wildlife Service; US Army Corp of Engineers; National Fish and Wildlife Foundation; and private Landowners.

The project addresses CALFED's high priority goal of screening diversions on the Sacramento River, reducing entrainment and advancing screen technology by demonstrating the highly useful retrievable feature in screen design.

Extensive efforts to screen major diversions on the Sacramento River are ongoing and considered a high priority for realization of significant increases in salmon populations. While most large diverters have access to proven technology for intake screening, the same level of design is not available to small diverters (up to 40 cfs) on the Sacramento River. Landowners are hesitant to screen diversions without a proven method for screening. Through this project, landowners will receive technical and financial assistance in all phases of screening. This includes planning and design of screens, obtaining permits, construction, installation, monitoring, and funding.

On the Sacramento River, approximately 20 percent of the almost 800 diversions are vertical pump systems. Currently, there is no known retrievable technology available to screen vertical pump intakes. However, this grant provides funding to explore and develop the necessary technology to address vertical diversions, while refining slant pump science. The project also emphasizes technological development for vertical pumps that may include on and/or off site testing. The project will include characterization of pre-project conditions, testing of alternatives in technology, post installation evaluation and monitoring, and recommended operations and maintenance guidelines. The project proponents realize that although rock riprap protects the infrastructure of fish screens riprap can seriously impair the ability of the stream to migrate. This conflicts with the ERP goal of restoring dynamic river processes. Alternative methods of fish screen protection will be explored.

Project uncertainties include the following: variability in river conditions, site location, and pump size; effects of sediment and debris; cost effectiveness for landowners; ongoing operations and maintenance requirements; adequate funding levels for development of needed technology; and the fact that no reliable screen design has been identified for use on small Sacramento River diversions.

The hypothesis tested by this proposal is that new challenges with regard to retrievability will accompany the installation of positive barrier fish screens on vertical pump diversions. The expected outcome is the development and testing of new technologies for vertical pump screening and continued refinement of slant pump technology.

## **C. Project Description**

### **1. Statement of the Problem**

#### **a. Problem**

The National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (FWS) has classified numerous fish species as threatened or endangered under the Endangered Species Act. The Natural Resources Conservation Service (NRCS) and Family Water Alliance (FWA) have assisted landowners in the design and installation of positive barrier fish screens since 1997. It became clear almost immediately that off-the-shelf screening technology did not operate dependably with the fine sands and sediment load of the Sacramento River. Landowners were left without successful fish screen options to incorporate with the NMFS Salmon Recovery Plan, which calls for the screening of all diversions in California by the year, 2007.

In 1998 The Bureau of Reclamation contracted with NRCS to administer \$900,000.00 from CALFED for a small diversion fish screen program. Currently, six screens, on slant pump systems, are in the process of installation and expected to be operational by the summer of 2000. Three additional slant pump designs will be designed and installed under the original contract. FWA was awarded a grant in FY2000 for monitoring of current projects, which NRCS has been asked to administer. Monitoring will determine the unique characteristics of each system, which will help identify the operations and maintenance required for successful screen operation. Knowledge gained from the initial contract and the monitoring grant will be used in future projects.

There are approximately 200 known vertical pump diversions in the Sacramento River. Fish screen solutions for slant pump diversions do not address the unique problems of vertical pumps. This pilot project focus' attention on the successful development of positive barrier fish screens for vertical pumps.

#### **b. Conceptual Model**

The work proposed for this CALFED grant will implement a pilot project to screen high priority vertical pump fish screens by:

- Providing custom design and installation of positive barrier fish screens on vertical pump systems.
- Providing complete on-site inspection of each project.
- Monitoring these installations to determine specific requirements of each system and positive impacts on the ecological and physical processes of the fishery resources.
- Documenting operations and maintenance for each system.
- Developing operation and maintenance guidelines.
- Documenting and archiving all data so that the information is available for future projects.

NRCS and FWA are committed to refining the conceptual model for small fish screens and successfully completing positive barrier fish screens on vertical pump systems. All knowledge gained will be made available to guide future fish screen projects and increase the effectiveness of fish screen technology.

### **c. Hypotheses Being Tested**

The hypothesis tested by this proposal is that vertical pump diversions differ from slant pump diversions so that installation of each different screening system is faced with distinct problems. Knowledge gained by the installation of fish screens on vertical pump diversions will lead to improved technology for application to diversions within the greater CALFED area. Once technology is developed and proven, diverters will be more amenable to screening their agricultural diversions, thereby contributing to salmon and other fishery resources recovery.

### **d. Adaptive Management**

National Marine Fisheries Service has proposed a Salmon Recovery Plan that calls for the screening of all diversions in California by the year 2007. Positive barrier fish screens are the accepted method of screening; however, there is a lack of proven technology for screening small agricultural diversions. This pilot project will implement screening on vertical pumps, demonstrate retrievable screen technology, and refine slant pump screen technology.

Project monitoring will address critical uncertainties of new technologies and provide a knowledge base of successful techniques and identification of proper operations and maintenance. Rock riprap is commonly used to protect the fish screen investment; however, other methods of protection will be investigated and used if feasible.

Each successive year of this multi-year proposal will benefit from the information gathered the previous year. Any project difficulties identified will be resolved and incorporated into new designs. This will ensure success of this pilot program, further reducing entrainment of critical species and benefiting the fisheries resource and adapting CALFED's goals.

### **e. Education Objectives**

NRCS and FWA are currently working closely on fish screen projects within Colusa County. The partnership is committed to expanding fish screening activities throughout the Sacramento Valley, and improving educational and outreach activities through increased integration within the farming community in Colusa and neighboring counties.

Education and outreach by Natural Resource Conservation Service and Family Water Alliance will familiarize stakeholders and others with the purpose and value of fish screens to the resource and to the landowner/farmer. Outreach will recruit diverters into the project and notify the public about positive actions that farmers are taking to help the resource.

Information and results from test installations will be included on the Internet web page: [www.mako.com/fwafishforum](http://www.mako.com/fwafishforum). This website will address the salmon recovery issue and specifically the small diversion screening project. FWA distributes a quarterly newsletter called the Fish Forum, which is used to educate people on fish screening issues. The Fish Forum is distributed throughout the Sacramento Valley and reaches over 5,000 people in at least seven counties. Articles will also be included in the Colusa County USDA newsletter, which reaches over 1,200 farmers. NRCS and FWA will coordinate activities relating to fish screening projects to reach as broad and diverse an audience within the Sacramento valley and along the Sacramento River Ecological Management Zone as possible.

On-site demonstrations and fish screen seminars will be held when appropriate to further amplify the education/outreach component. The education component will increase the understanding of CALFED's goals relating to entrainment of fish at diversions and identify potential solutions through the reporting process. Newsletters and demonstration projects will address all aspects of the project.

## **2. Proposed Scope of Work**

### **a. Location and/or Geographic Boundaries of the Project**

The location of the installed fish screens will be within the Sacramento River Ecological Management Zone, Chico Landing to Verona. This includes Sutter, Glenn and Colusa Counties. See attached maps for project area boundaries (Attachment A).

Site specific information is not available at this time. However, on the attached maps, candidate sites are noted with a triangle. Refer to the attached pictures, which represent typical examples of vertical diversions.

### **b. Approach**

This project will be a cooperative effort between Family Water Alliance and Natural Resources Conservation Service. The approach of this project start with outreach in a cooperative effort between Family Water Alliance and Natural Resources Conservation Service to identify landowners with vertical pumping systems willing to have a fish screen installed on their system. After selection of an appropriate site, NRCS will start planning and design review on a fish screen to meet site-specific conditions. Family Water Alliance and Natural Resources Conservation Service will assist landowners in obtaining the appropriate permits. After approval of the design, the landowner will select a contractor to construct the fish screen. NRCS will provide construction inspection during installation. After successful installation of the project, NRCS will provide as-built drawings and provide a summary report of the installation to be available eight weeks after successful installation. More than one site may be in the planning, design and/or installation phase at any one time. Monitoring for at least one **year** and/or an irrigation season will provide information as to the success of new technology and provide the basis for any repairs or system adjustments. A final report will be made discussing which technologies were successful, which were not and recommendations for future projects. Project management will be shared by NRCS and FWA.

### **c. Monitoring**

The vertical pump screen installation(s) will be monitored during the year following installation. Monitoring will include diver observations and videotaping of the fish screen operation, interviews with the diversion operator, documentation of any needed repairs or adjustments, and an evaluation of the hydraulic characteristics of the fish screen. Monitoring results for the vertical pump installations will be compared with those collected previously for slant pump installations. Monitoring is intended to identify any problems with the operations and function of the screen. Adjustments and/or repairs will be made based on monitoring data.

#### d. Data Handling and Storage

NRCS will be the clearinghouse for information and data gathered from this project and all information will be available at the Colusa field office. The following information will be collected and stored for this project:

- Documentation of the planning, design, installation and monitoring of each individual installed fish screen.
- Photographs of each site pre and post installation.
- As-built drawings.
- All monitoring information including videos, daily logs and necessary repairs or system adjustments.
- Quarterly reports.
- Summary report of the installation of each site to be available eight weeks after installation.
- Final report on each site available when it has been installed and monitored for at least one year and through an irrigation season.
- Final report of the project.

#### e. Expected Products/Outcomes

The expected outcome is the development and testing of new technologies to screen vertical and slant pumps for reduction of entrainment and demonstrate the effectiveness of retrievable screen design. It is expected that these screens will be economical for farmers to install. Once proven reliable and economical the technology would move 'from the current R&D phase to application, and program expansion beyond the Sacramento River. It is anticipated that up to ten fish screen systems will be installed during the 5-year period. The first three years will focus primarily on development while the last two years will focus on monitoring and system adjustments.

Adaptive management techniques will be used to monitor projects and to address critical uncertainties of new technologies, providing a data base of successful and proper techniques regarding operations and maintenance. Each year of this multi-year proposal will benefit from the data gathered during the previous year. Any difficulties arising from a project will be resolved and incorporated into new designs, ensuring the success of this pilot program.

#### f. Work Schedule

None of the tasks listed are considered separable from any other portion of the project. Incremental funding of this project is not feasible or desired. Important milestones include 1) the installation of a vertical pump fish screen and 2) successful operation of a vertical pump fish screen for a full irrigation season. Tasks are broken down for the entire project, not each site. Each fish screen location will have its own unique set of engineering criteria. No sites have been selected at this time. It is anticipated that construction and installation will primarily occur between April and November. Once proven and reliable technology is developed the landowner will assume everyday normal operations and maintenance.

## **Work Schedule**

Tasks	Dates	
Program Level:		
1. Outreach	1-2001	to 1-2005
2. Education/ Information	1-2001	to 1-2006
3. Project Management	7-2001	to 1-2006
4. Final Project Report	7-2005	to 1-2006
5. Engineering Technical and Oversight	7-2001	to 1-2006
Project Level:		
1. Site review	7-2001	to 1-2005
2. Cost estimation	7-2001	to 3-2005
2a. Preliminary engineering Design review & survey		
2b. Partner cost share		
3. Permit application	10-2001	to 6-2005
3a. Site plan & description		
4. Final design review	1-2002	to 6-2005
4a. Agency review		
4b. Agency approval (for site)		
5. Construction	1-2002	to 6-2005
5a. Agency inspection		
5b. Agency approval		
6. Installation	4-2002	to 11-2005
6a. Review and documentation		
6b. Final inspection and payment		
7. Monitoring	4-2002	to 11-2005
7a. Initial and quarterly		
X. Adjustments (if necessary)	9-2002	to 11-2005
9. Project report	4-2002	to 1-2006
9a. Quarterly engineer report		
9b. Presentations		
9c. Final project report		

### **g. Feasibility**

Natural Resource Conservation Service and Family Water Alliance have demonstrated that working cooperatively with landowners and other partners on current CALFED fish screen



projects is both effective and feasible. Through our cooperative efforts, the installation of seven diversions has been completed (4 cylindrical and 3 Universal Stream Bottom Retrievable flat plate fish screen), two retrievable screens are currently under construction and two more diversions are scheduled for installation this fall. In spite of set backs caused by contractors, weather, river conditions and failures of off-the-shelf technology; the current fish screen program is gaining momentum and many farmers are eager to screen their diversions when proven technology is developed.

All work planned on the fish screen project is contingent on the fabrication and installation of fish screens by contractors during the seasonal limits of the permits. Weather and river conditions will also impact the timing of installations. Prior issues related to contractors used on this project have been resolved and no problems are anticipated in the future. Unfortunately, since the program is new, there is no guarantee that contractors will always meet expectations.

**Permits, Notifications and Compliance:** All necessary permits, notifications, and other regulatory compliance or approvals will be secured by the individual landowner with assistance from Natural Resources Conservation Service and Family Water Alliance. This includes the following:

State:

- Lake and Streambed Alteration Agreement Process – CDF&G 1603 Permit and CEQA compliance.
- CWA 401 NOTIFICATION
- CA RECLAMATION BOARD APPROVAL

Federal:

- ESA Compliance – USF&WS and NMFS consultations
- CWA 404 NOTIFICATION – Nationwide Permit 4 conditions and limitations apply.

Currentiy, all the appropriate agencies involved with the above permits and agreements are aware of the small diversion fish screening efforts and a designated contact has been identified, No permit constraints are expected with implementation of the fish screen program.

All screens projects will meet or exceed the Fish Screening Criteria of the California Department of Fish and Game, as well as NMFS Fish Screening Criteria for Anadromous Salmonids.

All projects on private property will include written permission from the property owner, not only to conduct the work, but also to allow state and federal agency access as appropriate. Specific property owners are not identified at this time. Once the project is funded, outreach efforts will identify and secure appropriate sites and willing participants.

#### D. Applicability to CALFED **ERP** Goals and Implementation Plan and CVPIA Priorities

##### 1. **ERP** Goals and CVPIA Priorities

This proposal addresses the CALFED **ERP** Goal of implementing fish screen projects on the Sacramento River to reduce entrainment and demonstrate retrievable screen technology. The species targeted for recovery include the Winter-Run, Spring-Run, Late-Fall-Run, Fall-Run of Chinook Salmon, Steelhead and Splittail. Protections will focus on the fry stage of the species,

The screening of diversions will protect endangered fry as they migrate out to sea. Since there are close to 800 small diverters on the Sacramento River identified as stressors, developing technology to screen these diversions will ultimately increase the recovery of salmon population. While many of the larger diverters have been screened or are in the process of being screened, the small diversions have not been screened due to lack of technology and prohibitive cost. This project will not only develop dependable technology, but work toward developing cost effective screen applications. The technology would then become commercially available to all diverters on the Sacramento River as well as throughout the Delta.

## **2. Relationship to Other Ecosystem Restoration Projects**

The small screen program will enhance or complement the efforts of CALFED to reduce entrainment of endangered fish species at large and small diversions along the Sacramento River. This project will enhance several other agency efforts to aid salmon recovery along the Sacramento River. This is all part of a cooperative effort among several agencies including California Department of Fish and Game's Unscreened Diversion Program, the Anadromous Fish Screen Program of the CVPIA, and Natural Resource Conservation Service's Fish Screen Program. Other projects within the Sacramento watershed that will benefit from this fish screen project include restoration work on Deer Creek, Mill Creek, Battle Creek and Butte Creek.

## **3. Requests for Next-Phase Funding (see Attachment B)**

## **4. Previous Recipients of CALFED or CVPIA Funding**

Natural Resource Conservation Service was the recipient of a previous CALFED grant as follows:

CALFED# 1425-99-AA-20-17700

Small Fish Screen Program of the Bay Delta Solution

Total funded: \$900,000

Approximately 50% expended

Through our cooperative efforts NRCS and FWA have installed seven diversion (4 cylindrical and 3 Universal Stream Bottom Retrievable flat plate fish screen), two retrievable screens are currently under construction and two more diversions are scheduled for installation this fall.

## **5. System-Wide Ecosystem Benefits**

This project not only complements state and federal programs and projects, but also complements projects within the upper watershed in the Sacramento River including Deer Creek, Mill Creek, Battle Creek and Butte Creek. These projects will benefit by increasing the number of salmon returning to spawn in these areas.

## **E. Qualifications**

### **Natural Resources Conservation Service**

The Natural Resources Conservation Service (NRCS) has provided technical and financial assistance to farmers in Colusa County since 1952. The Colusa County NRCS field office has been closely involved in the development of the small diversion fish screen program since it was initiated on the Sacramento River in 1994. The Colusa County field office has maintained a

close-working relationship with all of the partners involved in the Sacramento River Small Diversion Fish Screen Program. These partners include CAL-FED, US Fish and Wildlife Service, National Marine Fisheries Service, California Department of Fish and Game, US Bureau of Reclamation, Colusa County Board of Supervisors, Colusa County Resource Conservation District, Family Water Alliance and landowners throughout the county. During the last three years, the Colusa County NRCS field office has delivered a cost share value of \$250,000 through financial and technical assistance on the fish screen program in Colusa County.

### Family Water Alliance

Family Water Alliance is a 501©(3) non-profit corporation established in 1991. The primary mission of FWA is to educate the public about rural issues. Five years ago, Family Water Alliance participated in the initiation of the Sacramento River Small Diversion Fish Screen Program, and has been a driving force in the screening of small diversions in Colusa County. During this time, Family Water Alliance has provided overall project management, outreach and education, funding through grants, and represented the landowner on key issues relating to the screening program. Family Water Alliance's primary motto, "As long as there are fish in the river there will be water on the land," demonstrates FWA's commitment to the protection of the fisheries resource.

cost

#### 1. Budget (Attachment C)

#### 2. Cost-Sharing

NRCS will provide limited cost sharing in the form of technical and administrative assistance as shown on Attachment C. There will also be approximately \$100,000 in financial assistance available through the EQIP Program. In addition, FWA will attempt to secure other funding through grant writing efforts. In the past FWA was able to secure over \$259,000 toward the screen projects. It is anticipated that the total cost share available for this project through NRCS and FWA will represent approximately 25 percent of the total.

### Local Involvement

The fish screen program in Colusa County has been widely publicized through numerous local newspaper articles, newsletter, and public presentations. There has not been any opposition expressed by local government agencies for special interest groups regarding the fish screen program or its effects on local economies or resources. Both the Natural Resources Conservation Service and Family Water Alliance have received special recognition from several agencies regarding their work to develop solutions to fish screening issues.

Education and outreach by Natural Resource Conservation Service and Family Water Alliance will notify neighboring landowners of pending projects. Information and outreach activities will recruit diverters into the project and notify the public about positive actions that farmers are taking to help the resource.

Information and results from test installations will be included on the Internet web page: [www.mako.com/fwafishforum](http://www.mako.com/fwafishforum). This website will address the salmon recovery issue and specifically the small diversion screening project. FWA distributes a quarterly newsletter called

the Fish Forum, which is used to educate people on fish screening issues. The Fish Forum is distributed throughout the Sacramento Valley and reaches over 5,000 people in at least seven counties. Articles will also be included in the Colusa County USDA newsletter, which reaches over 1,200 farmers. NRCS and FWA will coordinate activities relating to fish screening projects to reach as broad and diverse an audience within the Sacramento valley and along the Sacramento River Ecological Management Zone as possible.

There will not be any negative third party impacts. Positive impacts include protecting the farming industry in the Sacramento valley by allowing farmers to continue diverting water, maintaining community economic stability, and offer new job opportunities such as contractors, dive teams, manufacturers and installers of fish screen and related project materials.

## **H. Compliance with Standard Terms and Conditions**

- (1) FWA agrees to comply with standard terms and conditions as identified in Attachments D and E, except as noted in this proposal.
- (2) Either party may terminate this agreement by a written notice to the other party at least 60 calendar days in advance of the effective date of the termination. FWA will be entitled to reimbursement for expenses incurred prior to termination. FWA will be reimbursed for obligations/commitments that cannot be cancelled at time of termination.
- (3) No member of or delegate to Congress, or Resident Commissioner shall be admitted to any share or part of this agreement, or to any benefit arising from it. However, this does not apply to this agreement to the extent that this agreement is made with a corporation for the corporation's general benefit.
- (4) The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, and American's With Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR-15, Subparts A & B), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

## **I. Literature Cited Fish Screen References**

California Department of Fish and Game, **Diversion Database**

California Department of Fish and Game, **Fish Screening Criteria**, 4/14/1997

Daniels, R.A. and P.B. Moyle. 1983. Life History of Splittail (Cyprinidae: *Pogonichthys macrolepidotus*) in the Sacramento-San Joaquin Estuary. **Fisheries Bulletin** 84:105-117.

Hallock, R.J. 1991. Sacramento River Problems and Opportunities. In A. Lufkin, ed., **California's Salmon and Steelhead**, University of California Press, Berkeley, California.

Hallock, R.J. and W. F. Van Woert. 1959. A Survey of Anadromous Fish Losses in Irrigation Diversions from the Sacramento and San Joaquin Rivers. **California Department of Fish and Game: 45:227-267**

Healey, M.C. 1991 Life History of the Chinook Salmon. In C. Groot and L. Margolis, eds. Pacific **Salmon Life Histories**, University of British Columbia Press, Vancouver, British Columbia.

Hydraulics Division of American Society of Civil Engineers. 1982. **Design of Water Intake Structures for Fish Protection**. American Society of Civil Engineers, New York.

Mills, T.J., D.R. McEwan, and M.R. Jennings. 1997. California Salmon and Steelhead Beyond the Crossroads. In D.J. Stouder, P.A. Bisson, and R.J. Naiman, eds., **Pacific Salmon and Their Ecosystems**, Chapman & Hall, New York.

National Marine Fisheries Service, Southwest Region, **Fish Screening Criteria for Anadromous Salmonids**, January 1997

U.S. Fish and Wildlife Service. 1995. **Sacramento-San Joaquin Delta Native Fishes Recovery Plan**. U.S. Fish and Wildlife Service, Portland, Oregon.

Williams, J.E. and C.D. Williams. 1991. The Sacramento River Winter Chinook Salmon. In A. Lufkin, ed., **California's Salmon and Steelhead**, University of California Press, Berkeley, California.

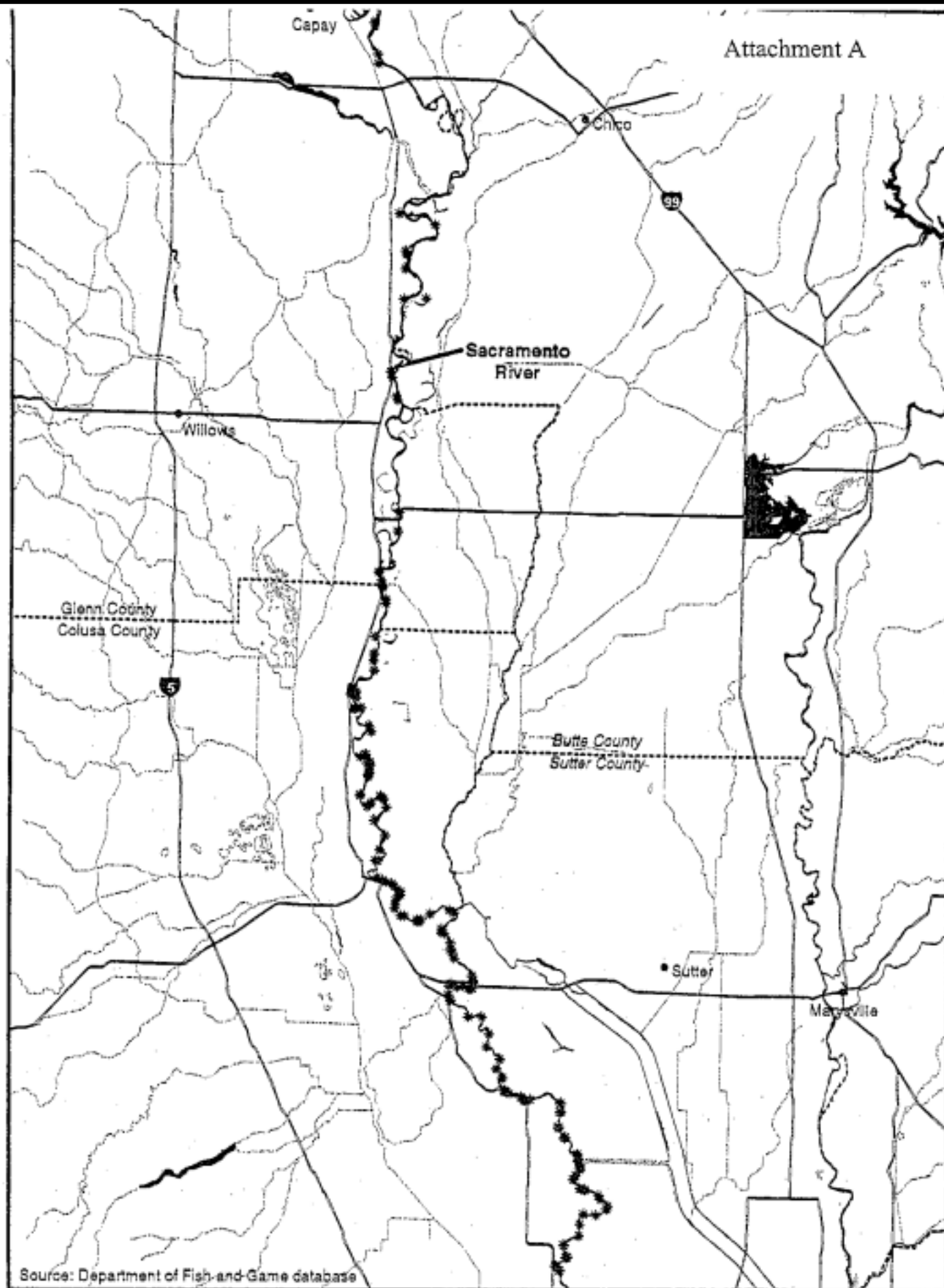
## **J. Threshold Requirements**

Nondiscrimination Compliance – See attached

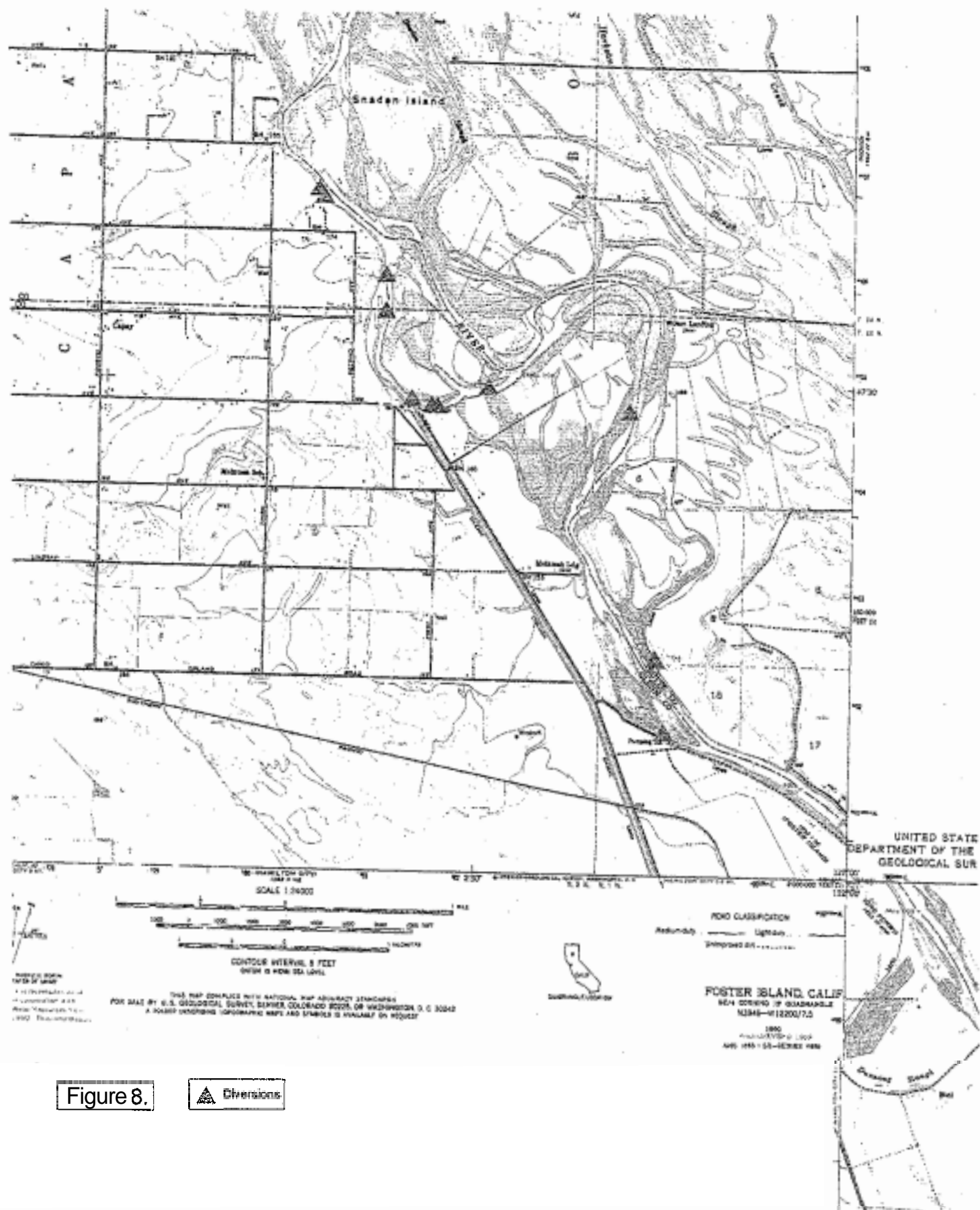
Bidders Bond – Any subcontract agreement that exceeds \$107,000 will include attached bidders bond - See attached

Non Collusion Affidavit – See attached

Proof of Contractors License – See non-profit determination letter. Any contracts agreed to will include appropriate business or contractors license.



**Locations of Existing Unscreened Diversions in  
Middle Sacramento River**







# SACRAMENTO RIVER DIVERSIONS

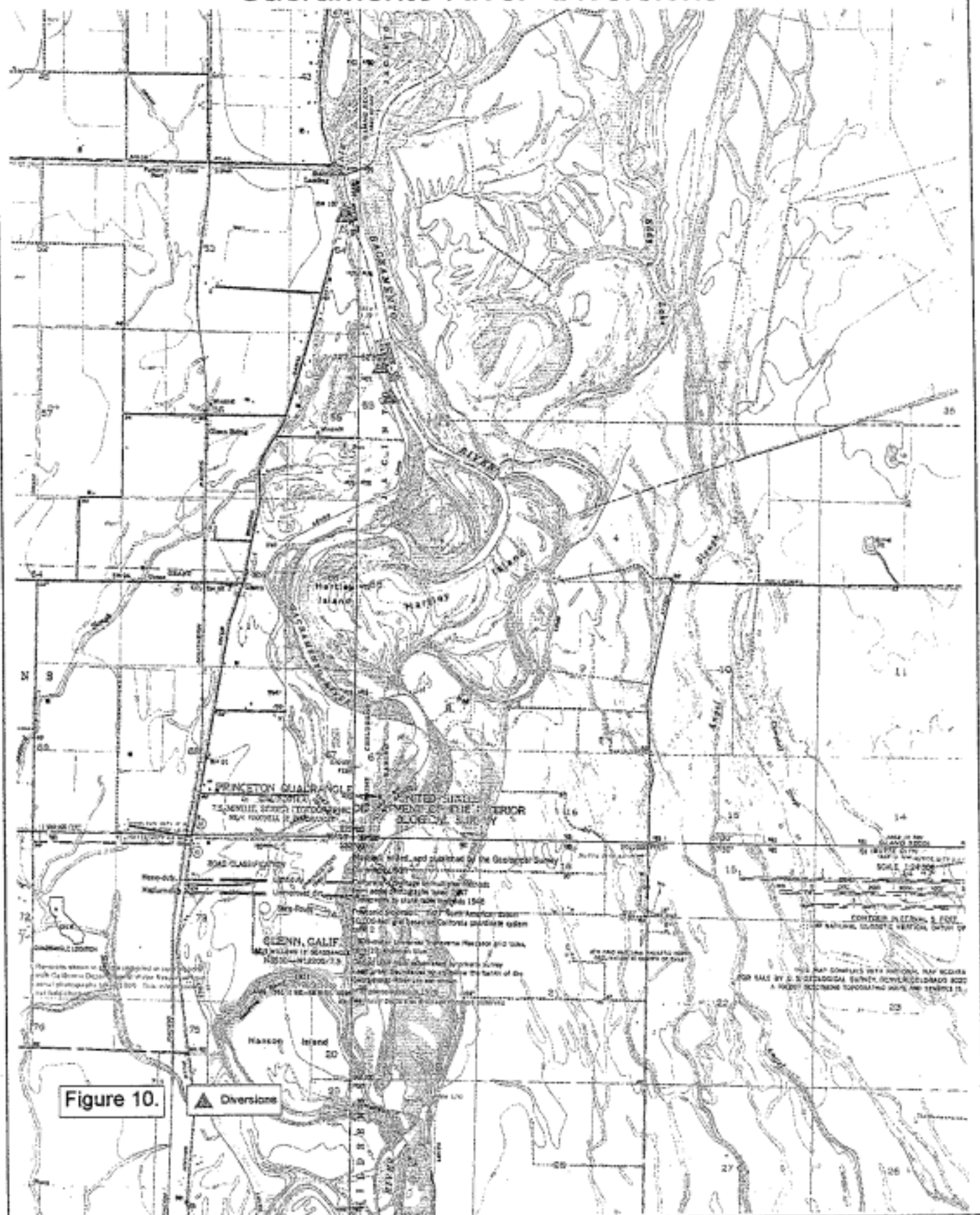


Figure 10.

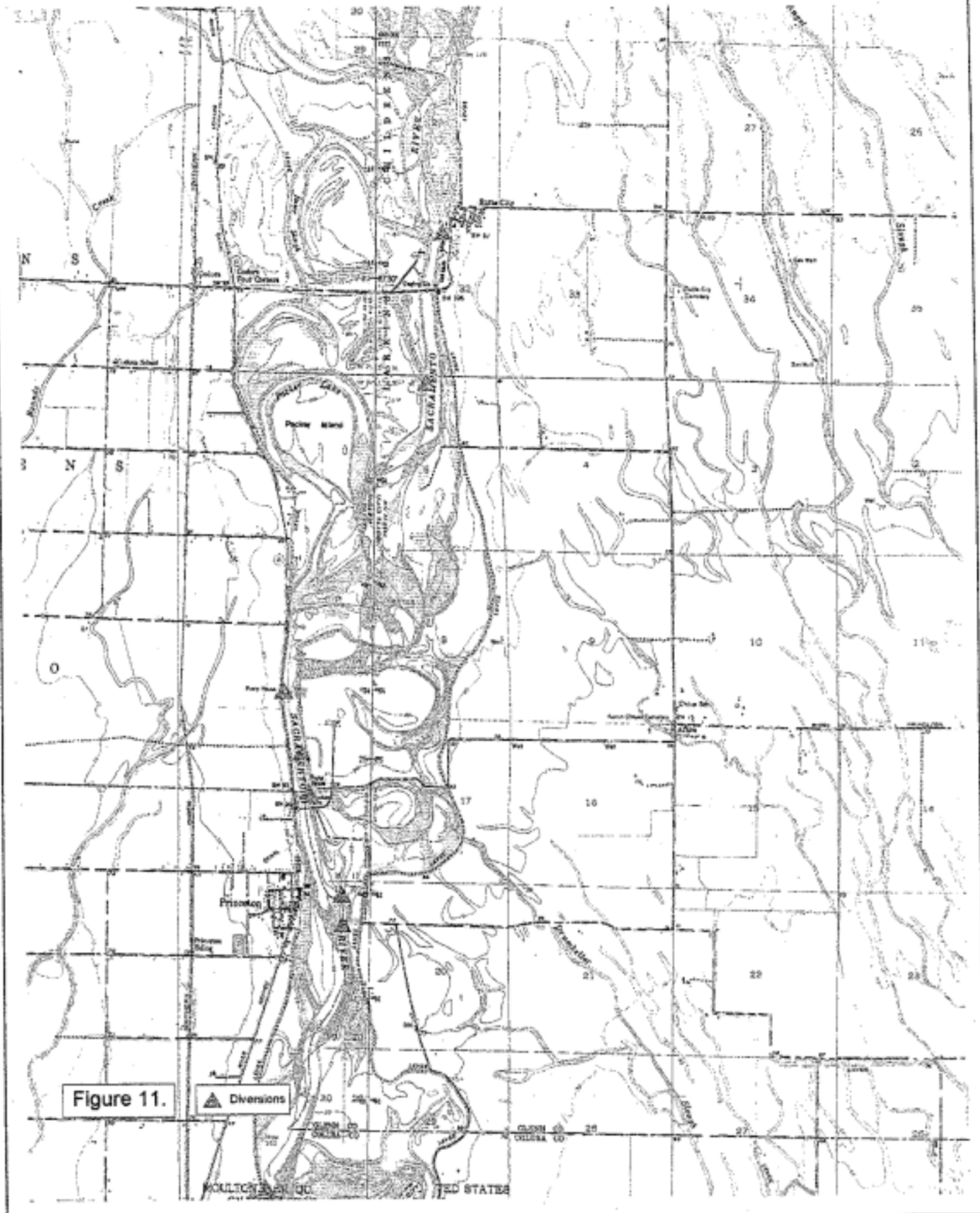
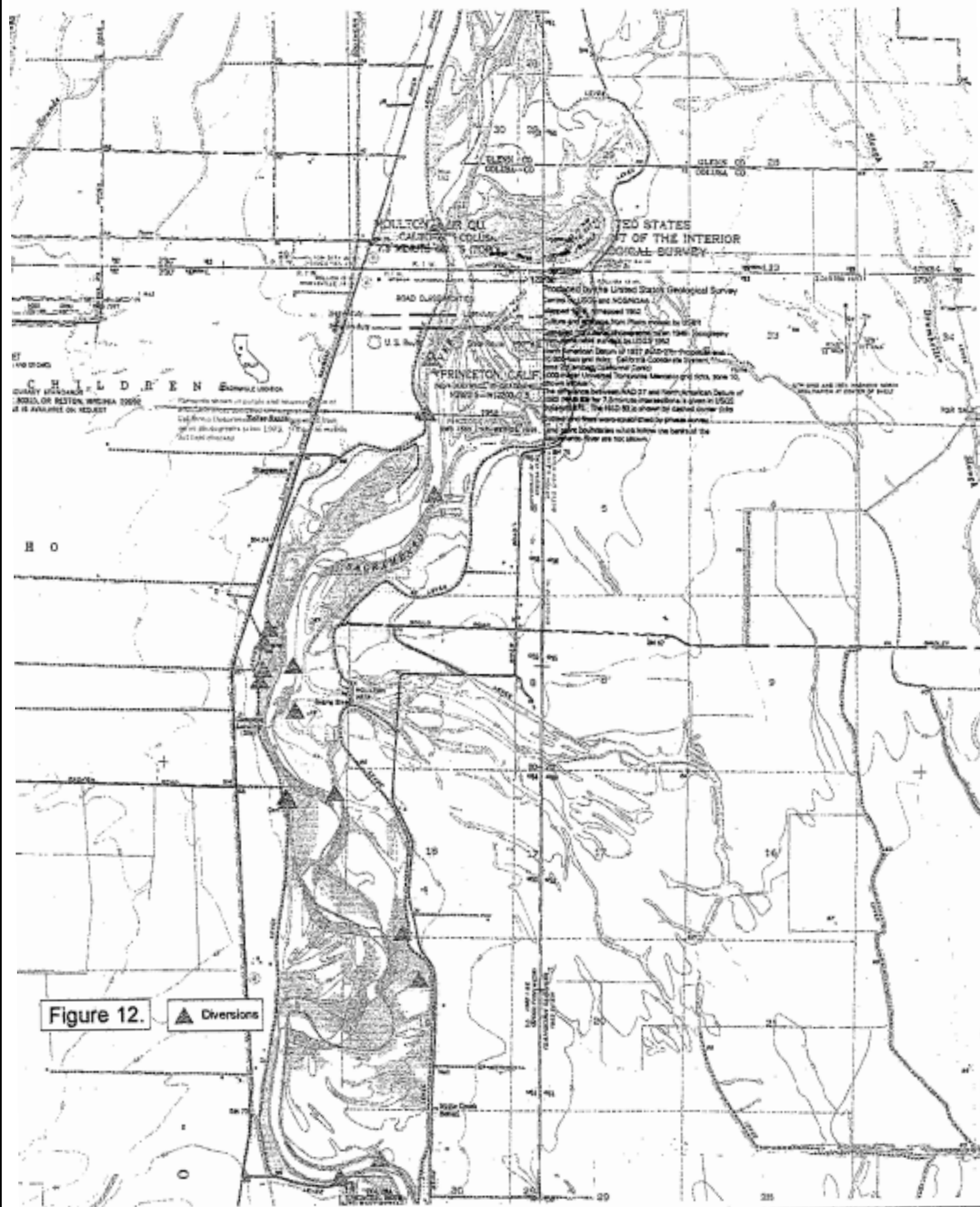


Figure 11.

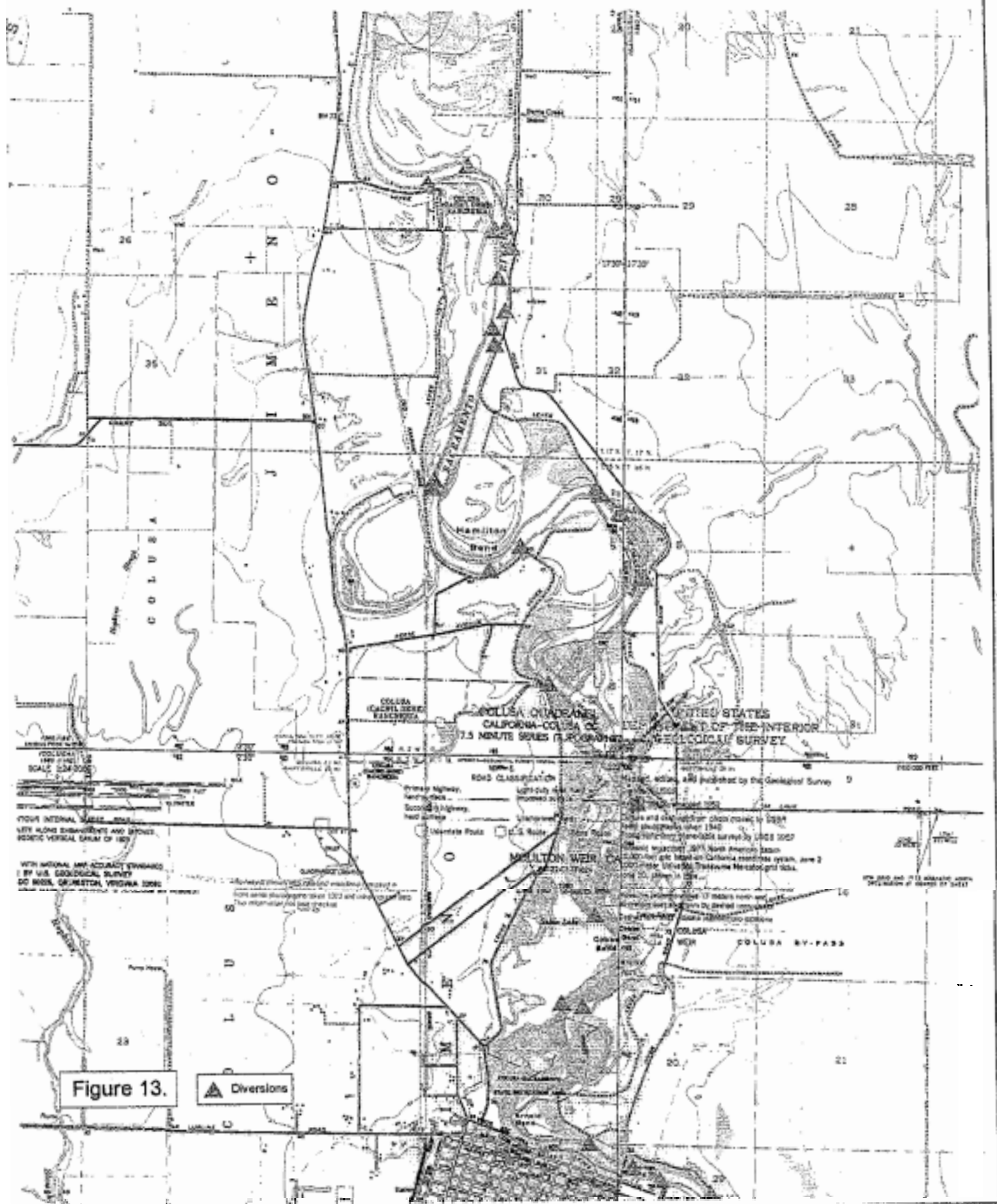
▲ Diversion

MAULTSBY, CA. UNITED STATES

# Sacramento River Diversions

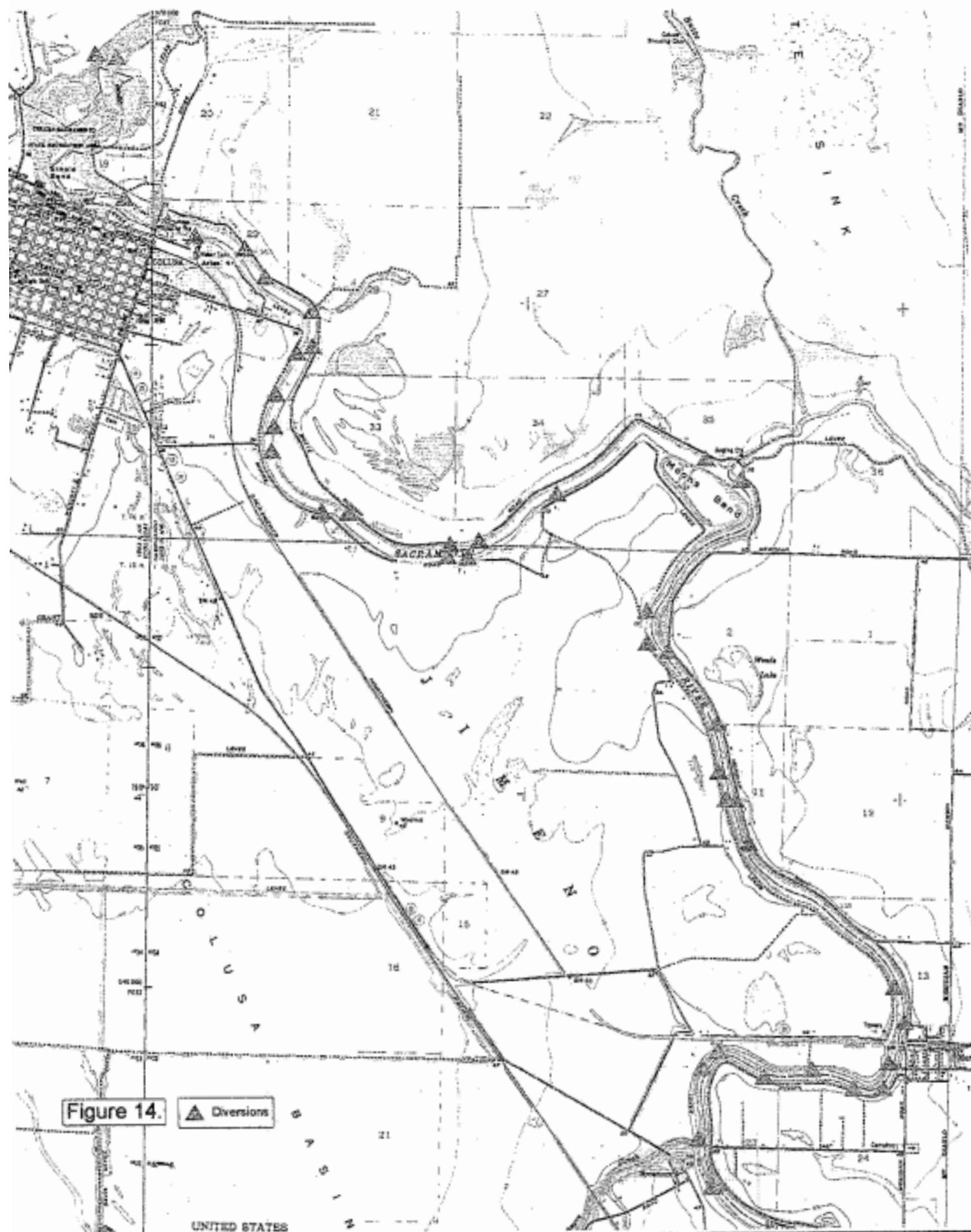


## Sacramento River Diversions

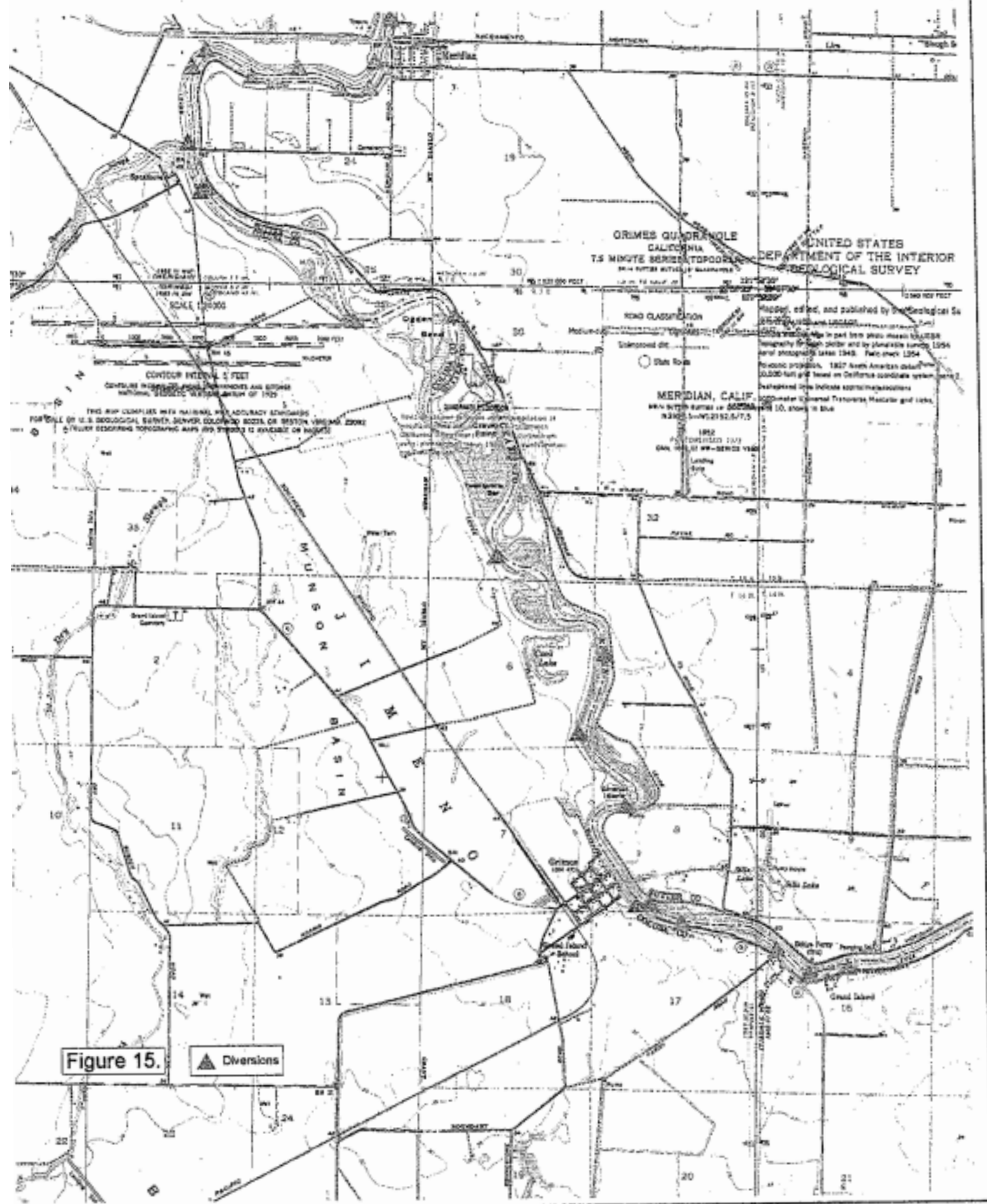




# SACRAMENTO RIVER DIVERSIONS



## Sacramento River Diversions





# Sacramento River Diversions

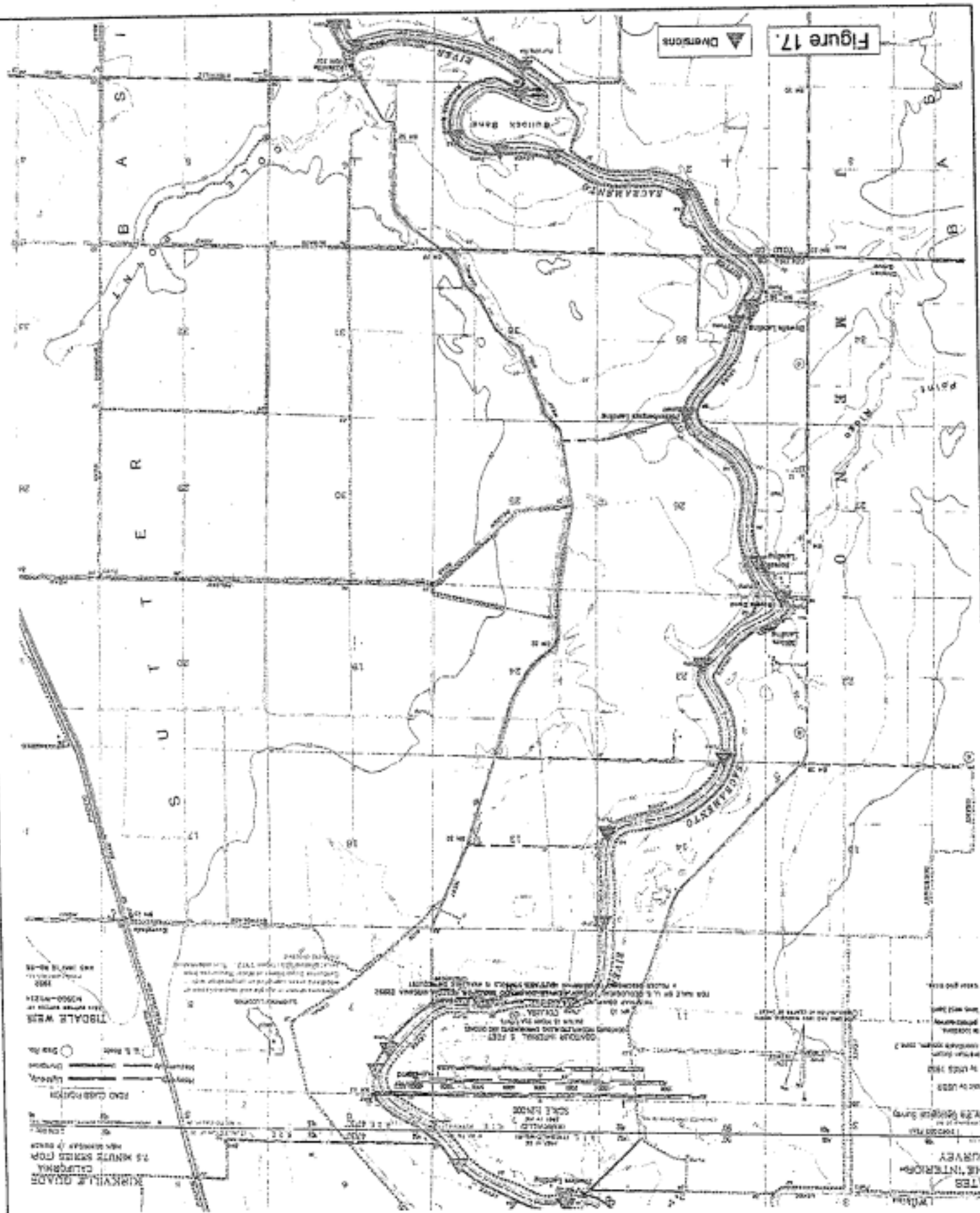
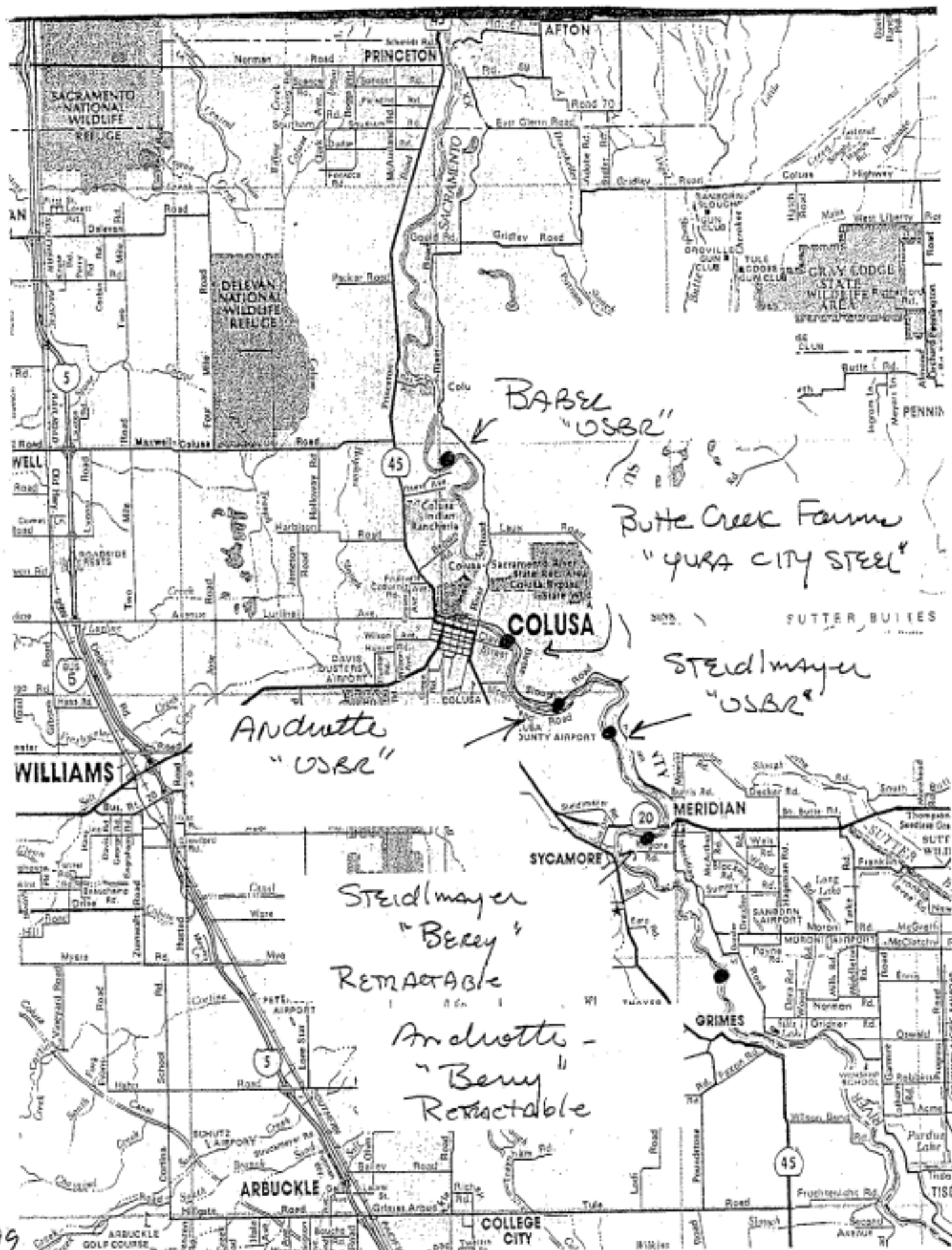


Figure 17.





12/17/99

## ATTACHMENT B

### Next Phase Funding – Project Status

#### Sacramento River Small Diversion **Fish** Screen Project

This proposal compliments the originally funded CALFED fish screen proposal by expanding the developed technology from slant to vertical diversions. The original proposal assumed that off-the-shelf technology would adequately address the fish screen needs of small diversions. However, real world experience proved that present technology did not work in the Sacramento River.

In the fall of 1997, four diversions were screened on the Sacramento River. As of today, three of the larger screens have failed due to the interaction of unique river conditions including high turbidity, sediment load, and vegetative material. This interaction between the river conditions and the screens has resulted in frozen bearings, the failure of the self-cleaning mechanism, clogged filters, and the ultimate implosion of screens at two diversion sites.

In response to these failures, Natural Resource Conservation Service has recommended potential solutions to address the cause of the screen failures. These recommendations include making the screens and backwash pumps retrievable, installing improved filtration and monitoring systems, and connecting safety devices to protect the pumps and screens. Improving engineering design and establishing more control over screen installations will also reduce screen failure. In addition, installation will include the development of an acceptable plan for operation and maintenance of screened facilities. National Marine Fisheries Service has supported the retrievable concept since the inception of the fish screen program and continues to support small diversion fish screen installations along the Sacramento River.

Since current screen technology for diversions less than 40 cfs failed along Sacramento River, Family Water Alliance has recommended the implementation of an adaptive management program. Family Water Alliance believes that screening efforts should be redirected to solving the identified problems before any additional screening mandates come from state and federal agencies. Through actual experience, we know that no proven technology is available to screen small diversions in the Sacramento River, and therefore, the program must step back into the research and development (R&D), or adaptive management phase of this program.

Family Water Alliance, in conjunction with Natural Resource Conservation Service and the participating farmers, removed the failed screens and are installing new prototypes that will be monitored over the next year. These prototypes will incorporate many of the Natural Resource Conservation Service and NMFS recommendations. The failures have provided invaluable information, leading to the next stage of technological development for fish screens.

With 50% of the original funding remaining in the proposal, it is expected that the balance of the scheduled activities will be completed. These activities include: installing additional fish screens, installing monitoring devices, conducting monitoring activities, and completing environmental and administrative project requirements. Implementation issues have centered on previous contractors inability to complete project in a timely fashion

The initial project developed important data for the future success of fish screens in the Sacramento River. This information includes the need for monitoring, trash racks, bypass valves, reduction of moving parts and the importance of retractability.

While technology development is often slow and frustrating, numerous farmers have signed up to screen their pumps in spite of the setbacks, continuing to show interest and commitment to the fish-screening program. Over the past three years the National Marine Fisheries Service, California Department of Fish and Game, and Natural Resource Conservation Service have also demonstrated exemplary cooperation and sensitivity to farmers needs. This spirit of cooperation only furthers the partnership between private landowners and agencies.

See attached pictures for project description and cost,

## Project Description and Cost



### **Baber**

Universal Stream Bottom Retrievable  
Flat Plate Fish Screen  
Screened to: 25 CFS  
Total Cost: \$76,060  
Cost CFS: \$3,042



### **Steidlmayer**

Universal Stream Bottom Retrievable  
Flat Plate Fish Screen  
Screened to: 25 CFS  
Total Cost: \$53,000  
Cost /CFS: \$ 2,120



### **Andreotti**

Manifold installed  
Universal Stream Bottom Retrievable  
Flat Plate Fish Screen  
Screened to: 15 CFS  
Total Cost Estimate: \$ 55,141  
Cost/CFS: \$ 3,676



### **Andreotti**

Screen Installation at side of bank  
Universal Stream Bottom Retrievable  
Flat Plate Fish Screen



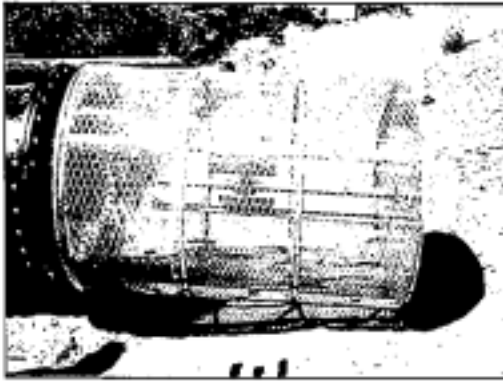
### **Andreotti – ISI Retractable Screen Under Construction**

Scaled down model of ISI retractable fish screen with brushed  
screen cleaning technology  
Screened to 15.5 CFS  
Total Cost Estimate: \$84,468.00  
Cost / CFS: \$5,449

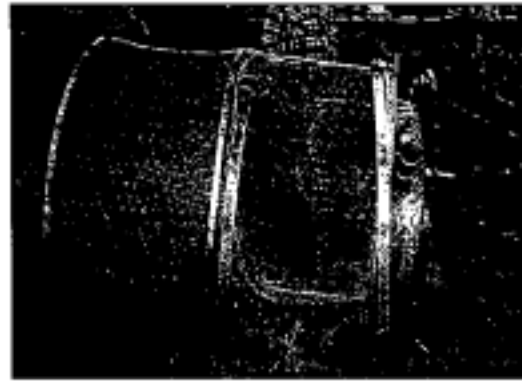
# Screen Failures Phase I

## Butte Creek Farms

Before

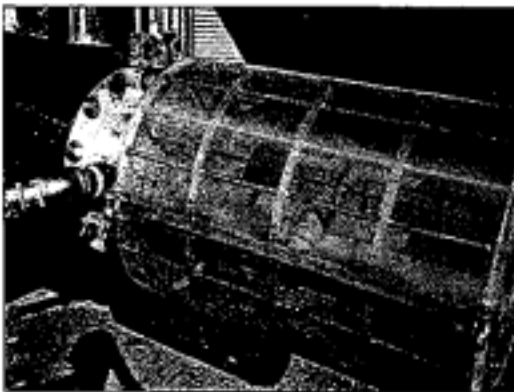


After

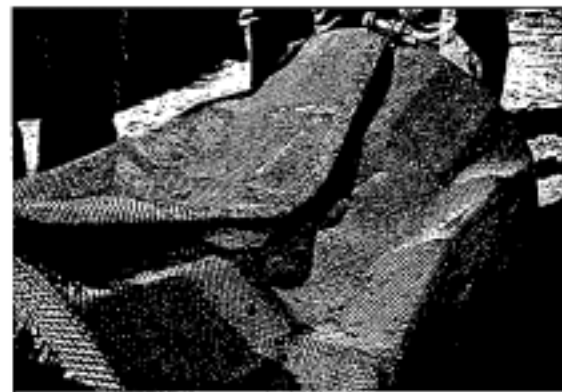


## Andreotti

Before



After



## Steidlmayer

Before



After



## Examples of Vertical Diversions



**FISHSCREEN PROPOSAL . 5/12/00**

Year	Task	Direct Costs							Indirect Costs	Total Cost
		Direct Labor Hours	Salary	Benefits	Travel	Supplies & Other Support	Contracts	Sub-Total Direct Costs	Administrative Overhead 12% of Direct	
Year 1	Task 1	148	7,200	1,800	300	800		10,100		10,100
	Task 2	178	8,700	2,200	300	900		12,100		12,100
	Task 3	444	21,600	5,400	800	2,300		30,100		30,100
	Task 4	4,160	73,400	31,500	1,000	15,700		121,600	14,600	136,200
	Task 5							0	0	0
	Task 6							0	0	0
Total Cost Year 1		4,930	\$110,900	\$40,900	\$2,400	\$19,700	\$0	5173,900	\$14,600	\$188,500
Year 2	Task 1	148	7,400	1,900	300	800		10,400		10,400
	Task 2	178	8,900	2,200	300	900		12,300		12,300
	Task 3	444	22,300	5,600	800	2,300		31,000		31,000
	Task 4	4,160	77,800	33,400	1,000	16,700		128,900	15,500	144,400
	Task 5						287,500	287,500		287,500
	Task 6						50,000	50,000		50,000
Total Cost Year 2		4,930	\$116,400	\$43,100	\$2,400	\$20,700	\$337,500	\$520,100	\$15,500	\$535,600
Year 3	Task 1		7,600	1,900	300	800		10,500		10,600
	Task 2		9,200	2,300	300	900		12,700		12,700
	Task 3		23,000	5,700	800	2,300		31,800		31,800
	Task 4	4,160	82,500	35,400	1,000	17,700		136,600	16,400	153,000
	Task 5						287,500	287,500		287,500
	Task 6						50,000	50,000		50,000
Total Cost Year 3		4,160	\$122,300	\$45,300	\$2,400	\$21,700	\$337,500	\$529,200	\$16,400	\$545,600
Year 4	Task 1		3,900	1,000	300	800		6,000		6,000
	Task 2		4,700	1,200	300	900		7,100		7,100
	Task 3		11,500	3,000	800	2,300		17,900		17,900
	Task 4	4,160	87,500	37,500	1,000	18,800		144,800	17,400	162,200
	Task 5						287,500	287,500		287,500
	Task 6						50,000	50,000		50,000
Total Cost Year 4		4,160	\$107,900	\$42,700	\$2,400	\$22,800	\$337,500	\$513,300	\$17,400	\$530,700
Year 5	Task 1		4,100	1,000	300	800		6,200		6,200
	Task 2		4,900	1,200	300	900		7,300		7,300
	Task 3		12,200	3,000	800	2,300		18,300		18,300
	Task 4	4,160	90,100	38,600	1,000	19,300		149,000	17,900	166,900
	Task 5						287,500	287,500		287,500
	Task 6						50,000	50,000		50,000
Total Cost Year 5		4,160	\$111,300	\$43,800	\$2,400	\$23,300	\$337,500	\$558,300	\$17,900	\$536,200
Grand Total All Tasks										
	Task 1	296	30,200	7,600	1,500	4,000	0	43,300		43,300
	Task 2	356	36,400	9,100	1,500	4,500	0	51,500		51,500
	Task 3	888	90,900	22,700	4,000	11,500	0	129,100		129,100
	Task 4	20,800	411,300	176,400	5,000	88,200	0	680,900	81,800	762,700
	Task 5	0	0	0	0	0	1,150,000	1,150,000		1,150,000
	Task 6	0	0	0	0	0	200,000	200,000		200,000
Grand Total		22,340	\$568,800	\$215,800	\$12,000	\$106,200	\$1,350,000	\$2,254,800	\$81,800	\$2,336,600

**Attachment C**  
**CALFED Fish Screen Budget**  
**2001- 2006**

Tasks	Year 1	Year 2	Year 3	Year 4	Year 5	Total Program
<b>Program Level</b>						
Outreach	\$9,000	\$9,300	\$9,500	\$4,900	\$5,100	\$37,800
Education/Information	\$10,900	\$11,100	\$11,500	\$5,900	\$6,100	\$45,500
Project Mgt	\$27,000	\$27,900	\$28,700	\$14,800	\$15,200	\$113,600
Travel	\$1,400	\$1,400	\$1,400	\$1,400	\$1,400	\$7,000
Newsletter & Supplies	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000
<b>Total</b>	<b>\$52,300</b>	<b>\$53,700</b>	<b>\$55,100</b>	<b>\$31,000</b>	<b>\$31,800</b>	<b>\$223,900</b>
<b>Engineering Technical &amp; Oversight</b>						
Engineer Field Office	\$57,400	\$60,800	\$64,500	\$68,400	\$70,400	\$321,500
Technican Field Office	\$47,500	\$50,400	\$53,400	\$56,600	\$58,300	\$266,200
Travel	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$5,000
Supplies and other Support	\$15,700	\$16,700	\$17,700	\$18,800	\$19,300	\$88,200
Administrative Overhead @ 12%	\$14,600	\$15,500	\$16,400	\$17,400	\$17,900	\$81,800
<b>Total</b>	<b>\$136,200</b>	<b>\$144,400</b>	<b>\$153,000</b>	<b>\$162,200</b>	<b>\$166,900</b>	<b>\$762,700</b>
<b>Project Level</b>						
Construction & installation	\$0	\$250,000	\$250,000	\$250,000	\$250,000	\$1,000,000
Monitoring	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Adjustments @ 5% of Construction	\$0	\$12,500	\$12,500	\$12,500	\$12,500	\$50,000
Contingency @ 10% of construction		\$25,000	\$25,000	\$25,000	\$25,000	\$100,000
<b>Total</b>	<b>\$0</b>	<b>\$337,500</b>	<b>\$337,500</b>	<b>\$337,500</b>	<b>\$337,500</b>	<b>\$1,350,000</b>
<b>TOTAL AMOUNT REQUESTED</b>	<b>\$188,500</b>	<b>\$535,600</b>	<b>\$545,600</b>	<b>\$530,700</b>	<b>\$536,200</b>	<b>\$2,336,600</b>
<b>In-Kind</b>						
Project Mgt: Program level						
<b>NRCS @20% of Colusa DC (\$50,000)</b>	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
<b>Project Level</b>						
District Conservationists Field Office	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$75,000
Area/State Engineers	\$19,000	\$19,000	\$12,000	\$6,000	\$6,000	\$62,000
Fish Biologist	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000
Area Conservationist	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000
CALFED Liaison	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$5,000
<b>TOTAL IN-KIND</b>	<b>\$53,000</b>	<b>\$53,000</b>	<b>\$46,000</b>	<b>\$40,000</b>	<b>\$40,000</b>	<b>\$232,000</b>



# APPLICATION FOR FEDERAL ASSISTANCE

OMB Approval No. 0348-0043

1. N P E OFSUEMISSION: Application <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction		2. DATE SUBMITTED	Applicant Identifier
		3. DATE RECEIVED BY STATE	(State Application Identifier)
		4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier

**5. APPLICANT INFORMATION**  
 Legal Name: **USDA Natural Resources Conservation Service Colusa County NRCS**  
 Address (give city, county, State, and zip code):  
**100 Sunrise Blvd., Suite B  
Colusa, CA 95932**  
 Organizational Unit:  
 Name and telephone number of person to be contacted on matters involving this application (give area code):  
**Dan Z. Martynn (530) 458-2931**

**6. EMPLOYER IDENTIFICATION NUMBER (EIN):**  

7
2
-
0
5
6
4
8
3
0

**7. TYPE OF APPLICANT:** (enter appropriate letter in box) N  

A. State	H. Independent School Dist.
B. County	I. State Controlled Institution of Higher Learning
C. Municipal	J. Private University
D. Township	K. Indian Tribe
E. Interstate	L. Individual
F. Intermunicipal	M. Profit Organization
G. Special District	N. Other (Specify) <b>Federal</b>

**8. TYPE OF APPLICATION:**  
 New ☐ Continuation ☐ Revision ☐  
 If Revision, enter appropriate letter(s) in box(es) ☐ ☐  
 A. Increase Award    B. Decrease Award    C. Increase Duration  
 D. Decrease Duration    Other (specify): \_\_\_\_\_

**9. NAME OF FEDERAL AGENCY**  

CALFED

**10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:**  

-

**TITLE:** \_\_\_\_\_  
**12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.):**  

**Glenn, Colusa, & Sutter Counties, CA**

**11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:**  

**Sacramento River Small Fish Screen Program for vertical pump diversion:**

<b>13. PROPOSED PROJECT</b>		<b>14. CONGRESSIONAL DISTRICTS OF:</b> Congressman Doug Ose - 3rd District															
Start Date 1/2001	Ending Date 1/2006	a. Applicant <b>USDA - NRCS &amp; Family Water Alliance</b>															
<b>15. ESTIMATED FUNDING:</b>		<b>16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?</b>															
<table style="width:100%; font-size: small;"> <tr> <td>a. Federal</td> <td>\$ 2,359,800</td> </tr> <tr> <td>b. Applicant</td> <td>\$ 2,336,600<sup>00</sup></td> </tr> <tr> <td>c. State</td> <td>\$ 232,000<sup>00</sup></td> </tr> <tr> <td>d. Local</td> <td>\$ Pending</td> </tr> <tr> <td>e. Other</td> <td>\$</td> </tr> <tr> <td>f. Program Income</td> <td>\$</td> </tr> <tr> <td>g. TOTAL</td> <td>\$ 2,359,800</td> </tr> </table>		a. Federal	\$ 2,359,800	b. Applicant	\$ 2,336,600 <sup>00</sup>	c. State	\$ 232,000 <sup>00</sup>	d. Local	\$ Pending	e. Other	\$	f. Program Income	\$	g. TOTAL	\$ 2,359,800	a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____ b. No. <input checked="" type="checkbox"/> PROGRAM IS NOT COVERED BY E. O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	
		a. Federal	\$ 2,359,800														
		b. Applicant	\$ 2,336,600 <sup>00</sup>														
		c. State	\$ 232,000 <sup>00</sup>														
		d. Local	\$ Pending														
		e. Other	\$														
		f. Program Income	\$														
g. TOTAL	\$ 2,359,800																
<b>17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?</b>																	
<input type="checkbox"/> Yes If "Yes," attach an explanation. <input checked="" type="checkbox"/> No																	

**18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.**

a. Type Name of Authorized Representative <b>Dan Z. Martynn</b>	b. Title <b>District Conservationist</b>	c. Telephone Number <b>(530) 458-2931 Ext 101</b>
d. Signature of Authorized Representative 		e. Date Signed <b>May 12, 2000</b>

Also, please see attached proposed budget detail

# BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 0348-0044

## SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. CALFED	-	\$ -	\$ -	\$ 2,336,600	\$ 232,000	\$ 2,359,800
2.						
3.						
4.						
5. Totals		\$ -	\$ -	\$ 2,336,600	\$ 232,000	\$ 2,359,800

## SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
a. Personnel	\$ 568,800	\$	\$	\$	\$ 568,800
b. Fringe Benefits	215,800				215,800
c. Travel	12,000				12,000
d. Equipment	-				-
e. Supplies	108,200				108,200
f. Contractual	1,350,000				1,350,000
g. Construction	-				-
h. Other	-				-
i. Total Direct Charges (sum of 6a-6h)	2,254,800				2,254,800
j. Indirect Charges	81,800				81,800
k. TOTALS (sum of 6i and 6j)	\$ 2,336,600	\$	\$	\$	\$ 2,236,600
7. Program Income	\$	\$	\$	\$	\$

Authorized for Local Reproduction

### SECTION C - NON-FEDERAL RESOURCES

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8. CALFED - In-Kind Contribution	\$ 232,000	\$	\$	\$ 232,000
9.				
10.				
11.				
12. TOTAL (sum of lines 8 - 11)	\$ 232,000	\$	\$	\$ 232,000

### SECTION D - FORCASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$	\$	\$	\$	\$
14. NonFederal					
15. TOTAL (sum of lines 13 and 14)	\$	\$	\$	\$	\$

### SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT

(a) Grant Program	FUTURE FUNDING PERIODS (Years)			
	(b) First	(c) Second	(d) Third	(e) Fourth
16.	\$	\$	\$	\$
17.				
18.				
19.				
20. TOTAL (sum of lines 16 - 19)	\$	\$	\$	\$

### SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges: Contractural-Fish Screen materials, construction & installation by contracted individuals. 22. Indirect Charges: Administration Overhead 12% of direct

23. Remarks:



**FWA**  
*Family Water Alliance*

(530) 438-2026  
Fax: (530) 438-2940  
E-mail: fwa@mako.com

*'Every Day is Earth Day on the Farm'*

P. O.Box 365, Maxwell, California 95955

May 14, 2000

Colusa Co. Board of Supervisors  
546 Jay Street  
Colusa, CA 95932

Sutter Co. Board of Supervisors  
463 2<sup>nd</sup> Street  
Yuba City, CA 95993

Glenn Co. Board of Supervisors  
526 W. Sycamore Street  
Willows, CA 95988

Dear Boards of Supervisors:

Family Water Alliance (FWA) in partnership with the U.S.D.A. Natural Resource Conservation Service (NRCS) will continue to work with small agricultural diverters to install fish screens on irrigation pumps on the Sacramento River. To accomplish this goal, FWA and NRCS will be submitting grant proposals through CALFED, and other funding sources, for different project locations in Glenn, Colusa, and Sutter Counties.

In accordance with the CALFEID Bay-Delta Ecosystem Restoration Projects and Program 2001 Proposal Solicitation Package, this letter and the attached proposal will provide advance notification regarding potential construction or restoration actions that could occur within your jurisdiction.

Please retain a copy of this letter and proposal for your records. We will be submitting a copy of this letter in our proposal to CALFED.

As per the CALFED requirements, your Board will be notified of any work that will be taking place in their jurisdiction if the proposal package is accepted and projects implemented.

Should you have any questions, feel free to contact Family Water Alliance at (530) 438-2026, or Dan Martynn, NRCS, at (530) 458-2931.

Sincerely,

  
Susan A. Sutton  
Family Water Alliance

  
Dan Martynn  
Natural Resource Conservation Service

cc: Glenn County RCD  
Sutter County RCD

# Environmental Compliance Checklist

All applicants must fill out this Environmental Compliance Checklist. Applications must contain answers to the following questions to be responsive and to be considered for funding. Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.

1. Do any of the actions included in the proposal require compliance with either the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA), or both?

X  
YES

                      
NO

2. If you answered yes to # 1, identify the lead governmental agency for CEQMNEPA compliance.

USDA - NRCS  
Lead Agency

3. If you answered no to # 1, explain why CEQMNEPA compliance is not required for the actions in the proposal.

4. If CEQMNEPA compliance is required, describe how the project will comply with either or both of these laws. Describe where the project is in the compliance process and the expected date of completion. Environmental effects of this action are addressed in the programmatic EIS (CALFED). Through the State and Federal permit process, cooperating landowners, with NRCS assistance, will be in compliance with CEQA/NEPA. The environmental effects associated with proposed actions are highly beneficial, with minimal short-term adverse effects.

5. Will the applicant require access across public or private property that the applicant does not own to accomplish the activities in the proposal?

X  
YES

                      
NO

If yes, the applicant must attach written permission for access from the relevant property owner(s). Failure to include written permission for access may result in disqualification of the proposal during the review process. Research and monitoring field projects for which specific field locations have not been identified will be required to provide access needs and permission for access with 30 days of notification of approval.

The Small Fish Screen Program is a voluntary program whereby willing landowners sign participation agreements. There are no "access" issues or problems since the landowners are actively involved with the project.

6. Please indicate what permits or other approvals may be required for the activities contained in your proposal. Check all boxes that apply.

**LOCAL**

Conditional use permit ☐

Variance ☐

Subdivision Map Act approval ☐

Grading permit ☐

General plan amendment ☐

Specific plan approval ☐

~~Rezone~~ ☐

Williamson Act Contract ☐

cancellation ☐

Other \_\_\_\_\_  
(please specify)

None required ☐

**STATE**

CESA Compliance ☒ (CDFG)

Streambed alteration permit ☒ (CDFG)

CWA § 401 certification ☐ (RWQCB)

Coastal development permit ☐ (Coastal Commission/BCDC)

Reclamation Board approval ☒

Notification ☐ (DPC, BCDC)

Other \_\_\_\_\_  
(please specify)

None required ☐

**FEDERAL**

ESA Consultation ☒ (USFWS)

Rivers & Harbors Act permit ☐ (ACOE)

CWA § 404 permit ☒ (ACOE)

Other \_\_\_\_\_  
(please specify)

None required ☐

DPC = Delta Protection Commission  
CWA = Clean Water Act  
CESA = California Endangered Species Act  
USFWS = U.S. Fish and Wildlife Service  
ACOE = U.S. Army Corps of Engineers

ESA = Endangered Species Act  
CDFG = California Department of Fish and Game  
RWQCB = Regional Water Quality Control Board  
BCDC = Bay Conservation and Development Comm.

## Land Use Checklist

All applicants must fill out this Land Use Checklist for their proposal. Applications must contain answers to the following questions to be responsive and to be considered for funding *Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.*

1. **Do the actions in the proposal involve physical changes to the land (i.e. grading, planting vegetation, or breaching levees) or restrictions in land use (i.e. conservation easement or placement of land in a wildlife refuge)?**

# YES

**X**  
**NO**

2. If NO to # 1, explain what type of actions are involved in the proposal (i.e., research only, planning only).  
Modification of existing irrigation pumping structures along the Sacramento River.

3. If YES to # 1, what is the proposed land use change or restriction under the proposal?

- 4. If YES to # 1, is the land currently under a Williamson Act contract?**

**YES**

NO

- 5.** If YES to # 1, answer the following:

Current land use

### Current zoning

Current general plan designation

6. If YES to #1, is the land classified as Prime Farmland, Farmland of Statewide Importance or Unique Farmland on the Department of Conservation Important Farmland Maps?

**YES**

**NO**

DON'T KNOW

7. If YES to # 1, how many acres of land will be subject to physical change or land use restrictions under the proposal?

**YES**

NO

9. If YES to #8, what are the number of employees/acre \_\_\_\_\_  
the total number of employees \_\_\_\_\_

- **10.** Will the applicant acquire any interest in land under the proposal (fee title or a conservation easement)?

**YES**

**X**  
**NO**

11. What entity/organization will hold the interest? \_\_\_\_\_

- 12. If YES to # 10, answer the following:**

Total number **of** acres to be acquired under proposal

Number of acres to be acquired in fee

Number of acres to be subject to conservation easement

Figure 1 is a schematic representation of the experimental design. It shows a sequence of three horizontal bars representing different stages of the task. The first bar is labeled 'Stimulus presentation' and contains a red dot. The second bar is labeled 'Response' and contains a red dot. The third bar is labeled 'Feedback' and contains a red dot. The 'Response' bar is also labeled 'Response time' and the 'Feedback' bar is labeled 'Feedback time'.

13. For all proposals involving physical changes to the land or restriction in land use, describe what entity or organization will:

manage the property

provide operations and maintenance services

conduct monitoring

*(continued)*

- 14.** For land acquisitions (fee title or easements), will existing water rights also be acquired?

**YES**

NO

15. **Does** the applicant propose any modifications to the water right or change in the delivery **of** the water?

**YES**

**X**  
NO

- 16.** If YES to # 15, describe \_\_\_\_\_



INTERNAL REVENUE SERVICE  
DISTRICT DIRECTOR  
2 CUPANIA CIRCLE  
MONTEREY PARK, CA 91754

DEPARTMENT OF THE TREASURY

Date: **MAR 23 1993**

FAMILY WATER ALLIANCE  
P O BOX 365  
MAXWELL, CA 95955

Employer Identification Number:  
**68-0262939**

Contact Person:  
TYRONE THOMAS

Contact Telephone Number:  
**(213) 894-2289**

Accounting Period Ending:  
December 31

Foundation Status Classification:  
170(b)(1)(A)(vi)

Advance Ruling Period Begins:  
February 11, 1992

Advance Ruling Period Ends:  
December 31, 1996

Addendum Applies:  
NO

Dear Applicant:

Based on information you supplied, and assuming your operations will be as stated in your application for recognition of exemption, we have determined you are exempt from federal income tax under section 501(a) of the Internal Revenue Code as an organization described in section 501(c)(3).

Because you are a newly created organization, we are not now making a final determination of your foundation status under section 509(a) of the Code. However, we have determined that you can reasonably expect to be a publicly supported organization described in sections 509(a)(1) and 170(b)(1)(A)(vi).

Accordingly, during an advance ruling period **you** will be treated as a publicly supported organization, and not as a private foundation. This advance ruling period begins and ends on the dates shown above.

Within 90 days after the end of your advance ruling period, you must send us the information needed to determine whether you have met the requirements of the applicable support test during the advance ruling period. If you establish that you have been a publicly supported organization, we will classify you as a section 509(a)(1) or 509(a)(2) organization as long as you continue to meet the requirements of the applicable support test. If you do not meet the public support requirements during the advance ruling period, we will classify you as a private foundation for future periods. Also, if we classify you as a private foundation, we will treat you as a private foundation from your beginning date for purposes of section 507(d) and 4940.

Grantors **and** contributors may rely on our determination that you are not a private foundation until 90 days after the end of your advance ruling period. If you send us the required information within the 90 days, grantors and contributors **may** continue to **rely** on the advance determination until we make a final determination of your foundation status.

Letter 1045(DO/CG)

FAMILY WATER ALLIANCE

If we publish a notice in the Internal Revenue Bulletin stating that we will no longer treat you as a publicly supported organization, grantors **and** contributors may not rely on this determination after the date we publish the notice. In addition, if you lose your status as a publicly supported organization, and a grantor or contributor was responsible for, or was aware of, the act or failure to act, that resulted in your **loss** of such status, that person may not rely on this determination from the date of the act or failure to act. Also, if a grantor or contributor learned that we had given notice that you would be removed from classification as a publicly supported organization, then that person may not rely on this determination as of the date he or she acquired such knowledge.

If you change your sources of support, your purposes, character, or method of operation, please let **us** know **so** we can consider the effect of the change on your exempt status and foundation status. **If** you amend your organizational document or bylaws, please send us a copy of the amended document or bylaws. **Also**, let **us** know all changes in your name or address.

**As** of January 1, 1984, you are liable for social securities taxes under the Federal Insurance Contributions Act on amounts of \$100 or more you pay to each of your employees during a calendar year. You are not liable for the tax imposed under the Federal Unemployment Tax Act (FUTA).

Organizations that are not private foundations are not subject to the private foundation excise taxes under Chapter 42 of the Internal Revenue Code. However, **you** are not automatically exempt from other federal excise taxes. If you have any questions about excise, employment, or other federal taxes, please let us know.

Donors may deduct contributions to you **as** provided in section 170 of the Internal Revenue Code. Bequests, legacies, devises, transfers, or gifts to you or for your use are deductible for Federal estate and gift tax purposes if they meet the applicable provisions of sections 2055, 2106, and 2522 of the Code.

Donors may deduct contributions to you only to the extent that their contributions are gifts, with no consideration received. Ticket purchases and similar payments in conjunction with fundraising events may not necessarily qualify as deductible contributions, depending on the circumstances. Revenue Ruling 87-246, published in Cumulative Bulletin 1987-2, on page 104, gives guidelines regarding when taxpayers may deduct payments for admission to, or other participation in, fundraising activities for charity.

You are not required to file Form 990, Return of Organization Exempt From Income Tax, if your **gross** receipts each year are normally \$25,000 or less. If you receive a Form 990 package in the mail, simply attach the label provided, check the box in the heading to indicate that your annual gross receipts are normally \$25,000 or less, **and** sign the return.

If you are required to file a return you **must file it by the 15th day of**

Letter 1045 (DO/CG)

**FAMILY WATER ALLIANCE**

the' fifth month after the end of your annual accounting period. We charge a penalty of \$10 a day when a return is filed late, unless there is reasonable cause for the delay. However, the maximum penalty we charge cannot exceed \$5,000 or 5 percent of your **gross** receipts for the year, whichever **is** less. We may also charge this penalty **if** a return is not **complete**. So, please **be** sure your return is complete **before** you file it.

You are not required to file federal income **tax** returns unless you are subject to the **tax** on unrelated business income under section 511 of the Code. If you are subject to this **tax**, you must file **an** income **tax** return on **Form 990-T**, Exempt Organization Business Income *Tax* Return. In this letter we are not determining whether **any** of your present or proposed activities are unrelated trade **or** business as defined in section 513 of the Code.

You need **an employer** identification number even if you have no employees. **If** an employer identification number was not entered on your application, we **will** assign a number to **you** and advise you of **it**. Please use that number on all returns **you** file and in all correspondence with the Internal Revenue Service.

If we said in the heading of this letter that **an** addendum applies, the addendum enclosed **is an** integral part of this letter.

Because this letter could help **us** resolve any questions about **your** exempt status and foundation status, you should keep it in **your** permanent records.

If you have any questions, please contact the person whose name and telephone number are shown in the heading of this letter.

Sincerely yours,



Michael J. Quinn  
District Director

■ **NONDISCRIMINATION COMPLIANCE STATEMENT**

STD. 19 (REV. 3-95)

COMPANY NAME

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990(a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), medical condition (cancer), age (over 40), marital status, denial of family care leave and denial of pregnancy disability leave.

**CERTIFICATION**

*I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.*

OFFICIAL'S NAME

SUSAN A. Sutton

DATE EXECUTED

5/12/00

EXECUTED IN THE COUNTY OF

Colusa

PROSPECTIVE CONTRACTOR'S SIGNATURE

Susan A. Sutton

PROSPECTIVE CONTRACTOR'S TITLE

President

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

Families Water Alliance

## U.S. DEPARTMENT OF AGRICULTURE

### CERTIFICATION REGARDING DRUG-FREE WORKPLACE REQUIREMENTS (GRANTS) ALTERNATIVE I - FOR GRANTEE'S OTHER THAN INDIVIDUALS

This certification is required by the regulations implementing Section 5151-5160 of the Drug-Free Workplace Act of 1988 (Pub. L. 100-690, Title V, Subtitle D: 41 U.S.C. 701 et seq.), 7 CFR Part 3017. Subpart F, Section 3017.600, Purpose. The January 13, 1989, regulations were amended and published as Part II of the May 25, 1990 Federal Register (pages 21681-21691). Copies of the regulations may be obtained by contacting the Department of Agriculture agency offering the grant.

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON PAGE 3)

#### Alternative I

A. The grantee ~~certifies~~ that it will or will continue to provide a drug-free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is ~~prohibited in the~~ grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;

(b) Establishing an ongoing drug-free awareness program to inform employees about -

- (1) The dangers of drug abuse in the workplace;
- (2) The grantee's policy of maintaining a drug-free workplace;
- (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
- (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace,

(c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the ~~statement~~ required by paragraph (a);

(d) Notifying the employee in the ~~statement~~ required by paragraph (a) that, as a condition of employment under the grant, the employee will -

- (1) Abide by the terms of the ~~statement~~; and
- (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug Statute occurring in the workplace no later than five calendar days after such conviction;

(e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position

title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification number(s) of each affected grant;

(f) **Taking** one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted -

(1) **Taking** appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or

(2) **Requiring** such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;

(g) **Making** a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a), (b), (c), (d), (e), and (f).

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, State, zip code)

37 Oak Street

Maxwell, Ca 95955

Check ☐ If there are workplaces on file that are not identified here.

Family Water Alliance

Organization Name

Award Number or Project Name

Susan A. Sutton, President

Name and Title of Authorized Representative

Susan A. Sutton

Signature

5/12/00

Date

## ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial ~~and~~ financial capability (including funds Sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L.88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL <i>Susan A. Juttor</i>		TITLE <i>President</i>	
APPLICANT ORGANIZATION <i>Family Water Alliance</i>		DATE SUBMITTED <i>5 / 2 00</i>	



State of California

DEPARTMENT OF WATER RESOURCES

The Resources Agency

Agreement No.: \_\_\_\_\_

Exhibit: \_\_\_\_\_

**NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY  
BIDDER AND SUBMITTED WITH BID FOR PUBLIC WORKS**

STATE OF CALIFORNIA )

COUNTY OF Colusa ) ssSusan A Sutton being first duly sworn, deposes and  
says (name)that he or she is President of  
(position title)Family Water Alliance  
(the bidder)

the party making the foregoing bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

DATED: 5/12/00By Susan A Sutton  
(Person signing for bidder)

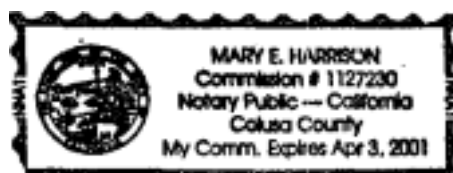
Subscribed and sworn to before me on

May 12, 2000

(Notarial Seal)

Mary E Harrison  
(Notary Public)

DWR 4205 (New 4/90, Master Current 3/99)



STATE OF CALIFORNIA

DEPARTMENT OF WATER RESOURCES

THE RESOURCES AGENCY

## BIDDER'S BOND

We

*Family Water Alliance*

as PRINCIPAL, and

as SURETY, are held and firmly bound unto the State of California in the penal sum of TEN PERCENT (10%) OF THE TOTAL AMOUNT OF THE BID of the Principal above named submitted by said Principal to the State of California, acting by and through the Department of Water Resources, for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, to the Director of the Department to which said bid was submitted, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

In no case shall the liability of the surety here under exceed the sum of \$ \_\_\_\_\_

## THE CONDITION OF THIS OBLIGATION IS SUCH,

That whereas the Principal has submitted the above-mentioned bid to the State of California, as aforesaid, for certain construction specifically described as follows, for which bids are to be opened at

\_\_\_\_\_ , California, on \_\_\_\_\_  
(Insert name of city where bids will be opened)

\_\_\_\_\_ (Insert date of bid opening)

for \_\_\_\_\_

\_\_\_\_\_ (Copy have the exact description of work, including location, as it appears in the proposal)

NOW, THEREFORE, If the aforesaid Principal is awarded the contract and, within the time and manner required under the specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files two bonds with the Department, one to guarantee faithful performance and the other to guarantee payment for labor materials, as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, We have hereunto set our hands and seals on this \_\_\_\_\_

day of \_\_\_\_\_, 19 \_\_\_\_\_

(Seal)

(Seal)

(Seal)

Principal

(Seal)

(Seal)

(Seal)

Surety

Address \_\_\_\_\_

NOTE: Signatures of those executing for the surety must be properly acknowledged.

DWR 4021 (Rev. 3/94)

*FWA will complete this Bond upon  
RECEIPT & notification of proposal acceptance &  
review by appropriate Susan A. Juttner*